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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/680,017	10/05/2000	Vipul Bansal	JP920000236US1	8559	
7590 05/03/2004			EXAMINER REAGAN, JAMES A		
McGinn & Gibb PLLC					
Suite 304 2568 A Riva Road Annapolis, MD 21401			ART UNIT	PAPER NUMBER	
			3621		
			DATE MAILED: 05/03/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application	n No.	Applicant(s)				
		09/680,017	•	BANSAL ET AL.	1			
		Examiner		Art Unit				
		James A. R	_	3621				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the	cover sheet with the	correspondence addi	ess			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a report of the provision of the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by state the period by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no even eply within the statute od will apply and will tute, cause the applic	t, however, may a reply be ti ory minimum of thirty (30) da expire SIX (6) MONTHS fror ation to become ABANDON	mely filed ys will be considered timely. the mailing date of this com ED (35 U.S.C. § 133)	munication.			
Status								
1)🖾	Responsive to communication(s) filed on 12	January 2004						
·:	This action is FINAL . 2b) This action is non-final.							
3)□	,—							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-24</u> is/are pending in the application 4a) Of the above claim(s) is/are withden claim(s) is/are allowed. Claim(s) <u>1-24</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from cons						
Applicat	on Papers							
10)□	The specification is objected to by the Exami The drawing(s) filed on is/are: a) and an applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the	ccepted or b) ne drawing(s) be ection is required	held in abeyance. Set if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 CFR	` '			
Priority (ınder 35 U.S.C. § 119							
12)[a)i	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a limit	ents have been ents have been riority documen eau (PCT Rule	received. received in Applicates have been received 17.2(a)).	tion No ed in this National S	tage			
Attachmen	t(s)							
1)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	8) 5 6	Interview Summar Paper No(s)/Mail D D Notice of Informal	y (PTO-413) Pate Patent Application (PTO-1	52)			

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DETAILED ACTION

Status of Claims

- This action is in response to the amendment filed on 12 January 2004 (paper #10).
- 2. Claims 1-24 have been amended (paper #10).
- 3. Claims 1-24 have been examined.

RESPONSE TO ARGUMENTS

4. Applicant's arguments received on have been fully considered but they are not persuasive. Referring to the previous Office action, Examiner has cited relevant portions of the references as a means to illustrate the systems as taught by the prior art. As a means of providing further clarification as to what is taught by the references used in the first Office action, Examiner has expanded the teachings for comprehensibility while maintaining the same grounds of rejection of the claims, except as noted above in the section labeled "Status of Claims." This information is intended to assist in illuminating the teachings of the references while providing evidence that establishes further support for the rejections of the claims.

With regard to the limitations of claim 1, Applicant argues that none of the prior art of record discloses the negotiation technique as cited in the newly added claim limitations. The Examiner respectfully disagrees and

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points to the rejections below, wherein the newly added limitations have

been addressed.

In response to applicant's argument that there is no suggestion to

combine the references, the examiner recognizes that obviousness can

only be established by combining or modifying the teachings of the prior

art to produce the claimed invention where there is some teaching,

suggestion, or motivation to do so found either in the references

themselves or in the knowledge generally available to one of ordinary skill

in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir.

1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

In this case, each of the references discloses distribution of computer

network resources.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for

all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at

the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

6.

Claims 1-3, 6-11, 15-19, and 22-24 are rejected under 35 U.S.C. 103(a)

as being unpatentable over Miller at al. (US 5,640,569 A) in view of

Krishnaswamy et al. (US 5,867,494 A).

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Examiner's note: Examiner has pointed out particular references

contained in the prior art of record in the body of this action for the

convenience of the Applicant. Although the specified citations are

representative of the teachings in the art and are applied to the specific

limitations within the individual claim, other passages and figures may

apply. Applicant, in preparing the response, should consider fully the

entire reference as potentially teaching all or part of the claimed invention,

as well as the context of the passage as taught by the prior art or

disclosed by the Examiner.

Claims 1-3, 8-11, 16-19, and 24:

With regard to the limitations of:

providing different levels of service by dynamically allocating

and pricing said resources based on customers' changing

needs, and their willingness to pay for different service levels.

wherein said allocation occurs using a dynamic negotiation

between said customers and said resource center, and

wherein said dynamic negotiation comprises any of:

said customers requesting said resource center to

acquire and release resources at any time;

said resource center conducting an auction of all

available resources in a shared resource pool at

predetermined intervals to determine said allocation

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and price of said resources for a subsequent time interval; and

- said resource center publishing said prices at which said resources of a shared resource pool can be acquired or released by said customers, whereby said customers use said prices for determining whether to request releasing or acquiring said resources;
- said means for dynamically allocating and pricing resources is through mutual negotiations between said customers and said resource center either through electronic communication means or otherwise,
- mechanism for conducting an online auction of said resources
 by the resource center in case of non-availability of adequate
 idle resources to meet a customer request followed by reallocation of said resources to said customers, updating of
 billing information and pricing based on the results of the
 auction of resources,
- mechanism for conducting an online auction of resources at pre-specified intervals of time followed by re-allocation of said resources to said customers, updating of billing information and pricing based on results of the auction of resources,
- mechanism for publishing the current prices for each class of resources at any point of time and means for updating the

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> current prices dynamically based on requests for release or acquisition of resources by customers, followed by updating of billing information,

- the arrangement being such that said mechanisms operate
 either individually or together in any combination of at least two
 mechanisms depending upon the requirement.
- said resources in a resource center includes servers, storage media, software applications and bandwidth of communication link connecting said servers center to a network.

Miller, in at least the abstract and column 2, line 58 to column 3, line 30, discloses allocation of computer resources based on a bidding auction system. Miller does not specifically disclose dynamic allocation of resources, but Krishnaswamy, in column 31, lines 48-51 does. Krishnaswamy also discloses specialized billing methods (see at least column 20, lines 35-39) and service level agreements, inherently disclosing different levels of service (column 30, lines 8-13). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miler's online auctioning system for allocating resources with Krishnaswamy's dynamic allocations of resources and associated billing practices because "The cheaper a resource becomes, the more important it becomes to have automatic management of that resource in a principled fashion. This is because the increased capacity makes it possible to apply

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that resource to lower-value uses. When a resource is expensive, all

uses, in order to be worth the amount they consume, must exceed some

minimum value to their users, so all uses of an expensive resource have

high and comparable values" (Miller, column 1, lines 14-22).

Claims 6, 14, and 22:

With regard to the limitations of said current prices comprise the

current price at which resources are allocated to customers, the new price

that would prevail if specified units of resources are released by customers

and the new price that would prevail if specified units of resources are

acquired by the customers, Miller, in column 2, lines 12-25, discloses

various pricing/bidding schemes and auction formats.

Claims 7, 15, and 23:

With regard to the limitation of each class of resources has some

units dedicated to specific customers and the remaining units can be

dynamically allocated to customers by the resource center, the combination

of Miller/Krishnaswamy, as shown above, discloses various auction

techniques. Miller/Krishnaswamy do not specifically state that certain

resources are set-aside for certain customers. However, Examiner takes

Official Notice that it is old and well known in the goods and services

supply arts to maintain regular and repeat customers that routinely request

and expect a standard amount of product to be supplied to them on a

habitual basis. Dedicating a specific or minimum amount of the supply to

specific recurring clients provides consistent throughput and profit.

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7. Claims 4, 5, 12, 13, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller/Krishnaswamy et al. (US 5,867,494 A) and further in view of Ferstenberg et al. (US 5,873,071 A).

Claims 4, 5, 12, 13, 20 and 21:

The combination of Miller/Krishnaswamy discloses the online allocation auction and billing above. Miller/Krishnaswamy do not specifically disclose:

- mutual online negotiations can take place between software-based agents representing said customers and said resource center,
- means enabling the customers to provide price and service level related inputs to their respective softwarebased agents,
- means for said software-based agents representing customers to monitor the usage of resources allocated to them and the levels of service being obtained, and
- means for said software-based agents representing customers to use,
- said inputs from said customers and said usage and/or said levels of service being obtained to dynamically determine when to request the software agent

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representing the resource center for acquiring or releasing resources at various prices.

Ferstenberg, however, in column 3, lines 22-41, discloses e-agents that conduct electronic negotiations according to rules established by a participant. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miller/Krishnaswamy dynamic allocations of resources and associated billing practices with Ferstenberg's electronic negotiating agents because "... it permits the participant the flexibility to dynamically adapt to market conditions that affect the price and availability of individual commodities" (Ferstenberg column 2, lines 39-43).

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Conclusion

- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **James A. Reagan** whose telephone number is **(703) 306-9131**. The examiner can normally be reached on Monday-Friday, 9:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **James Trammell** can be reached at (703) 305-9768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Receptionist** whose telephone number is **(703) 305-3900**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 305-7687 [Official communications; including After Final communications labeled "Box AF"]

(703) 308-1396 [Informal/Draft communications, labeled PROPOSED" or "DRAFT"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, 7th floor receptionist.

JAR 26 April 2004

> SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600